

Eastar™ GN007, Natural

Polyethylene Terephthalate Glycol Comonomer

Eastman Chemical Company

Message:

Eastar™ GN007 Copolyester is a water-clear glycol modified polyethylene terephthalate (PET) with an added mold release. Eastar™ GN007 copolyester will not crystallize and thus offers wider processing latitude than conventional crystallizable polyesters. This material offers an excellent combination of clarity, toughness, and melt strength that makes it useful for a variety of processing techniques and end-use applications.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Additive	Mold Release		
Features	Good Melt Strength		
	Good Mold Release		
	Good Processability		
	Good Toughness		
	High Clarity		
Uses	Containers		
	Cosmetic Packaging		
	Furniture		
	Household Goods		
	Personal Care		
	Sporting Goods		
	Stationary Supplies		
	Toothbrush Handles		
	Toys		
Writing Instruments			
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2030	MPa	ASTM D638

23°C	2000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	50.0	MPa	ASTM D638
Yield, 23°C	48.0	MPa	ISO 527-2
Break, 23°C	30.0	MPa	ASTM D638
Break, 23°C	29.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	4.4	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2
Break, 23°C	180	%	ASTM D638
Break, 23°C	200	%	ISO 527-2
Flexural Modulus			
23°C	2060	MPa	ASTM D790
23°C	2100	MPa	ISO 178
Flexural Strength			
23°C	68.0	MPa	ASTM D790
23°C	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	40	J/m	ASTM D256
23°C	110	J/m	ASTM D256
-40°C	4.4	kJ/m ²	ISO 180
23°C	9.4	kJ/m ²	ISO 180
Unnotched Izod Impact			
-40°C	No Break		ASTM D4218
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	70.0	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	62.0	°C	ASTM D648, ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
Haze	0.20	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

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